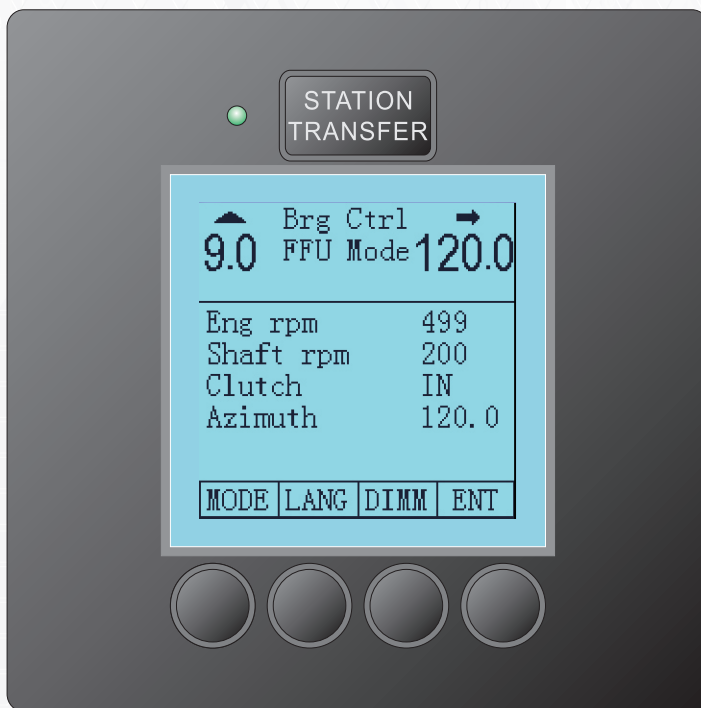


RPS200 RUDDERPROPELLER CONTROL SYSTEM



The RPS 200 is an independent follow-up control system with integral time dependent backup control system for one azimuth thruster. Each azimuth has an independent control

Selections and indications of Azimuth control system are controlled by multipurpose display panel(s). All indication lights for azimuth controls are dimmer controlled by push buttons on multipurpose panel.



The basic operation unit of the system is the Azimuth control head, which is a single lever for operation of the functions (steering, rpm, pitch) of the thruster.

Basic operations are easily accomplished using the multipurpose display and soft keys.

Simple. Reliable. Cost-effective.

Key Features:

- Versatile
- Economical
- Electronic engine link
- Actuator links
- Safety interlocks
- Station transfer
- Supports up to 5 stations
- Multi-functional display and buzzer at each station
- Redundant engine and azimuth control
- Redundant control lever position sensing
- Redundant power
- Redundant communication
- Redundant components monitored internally
- Control boxes for complete port/stbd system independence
- Dual CAN bus reduces wiring
- Self diagnostics

Variety of machinery arrangements:

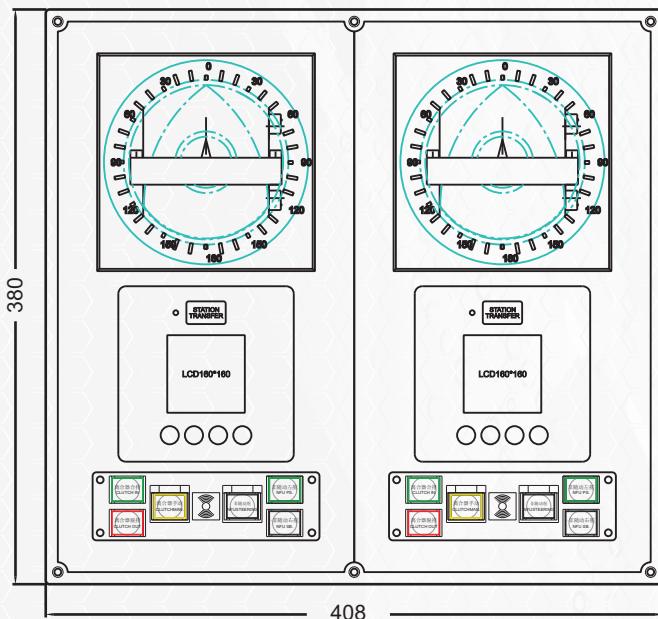
- One engine, one shaft
- Two engines, one shaft
- Two engines, two shafts
- Double ended vessel arrangements
- Shaft generators and other PTO machinery

Simple. Reliable. Cost-effective.

OPERATING FEATURES

- Two Control Head lever for independent rpm and azimuth control
- Available for single and multiple screw vessels
- Four Control Head lever line-up options from no restriction to various Control Head lever matching configurations
- Transfer lock to prevent accidental transfer to remote stations
- One stage transfer from engine room to bridge stations
- Engine warm-up mode
- Heavy sea mode
- Constant rpm mode
- Reduced power mode
- Emergency override mode
- Controlled acceleration / deceleration
- Multiple engine isochronous or speed droop load sharing
- Engine start block
- Clutch engage block
- Operating features are selectable and configurable
- Power take off clutch block

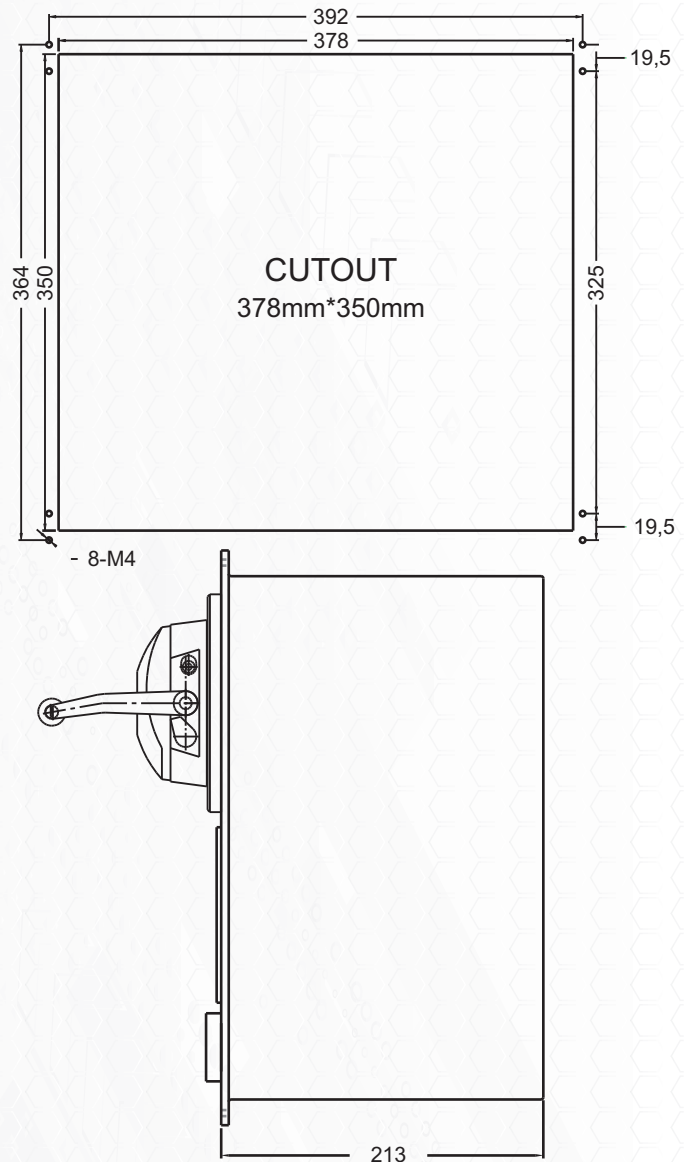
DIMENSIONS (PANEL)



SAFETY FEATURES

- System accepts redundant power sources with internal switching and continuous monitoring
- Each control head lever features primary and secondary position sensors which are continuously monitored for drift and failure
- Diagnostic capability from multipurpose display
- Fault contact and data link to vessel alarm and monitoring system

CUTOUT (PANEL)



RPS200 RUDDERPROPELLER CONTROL SYSTEM

Simple. Reliable. Cost-effective.

Specification

Power Supply:

Nominal 24Vdc, 18Vdc to 36Vdc

Typical 175mA @24Vdc(per section not including connected items)

Environmental:

Operating temperature -25°C to +70°C

Storage temperature -40°C to +85°C

Protection classification IP44

Meets or exceeds marine classification and regulatory requirements for Electromagnetic Compatibility, Vibration, Temperature, Humidity and Voltage Variation

Overall dimensions: 408mm L x 380mm W x 213mm H

Cut-out dimensions: 378mm L X 350mm W

Features

- Control boxes for complete port/stbd system independence
- Connects directly to standard J1939 and proprietary serial links for reading internal engine parameters
- Control system and engine data available to vessel alarm and monitoring system via Modbus RTU serial link
- Redundant pitch control outputs
- Redundant pitch feedback inputs
- Engine load input
- Manifold pressure (turbo) input
- Power take off generator power input

Simplified Four Station Control System

